F ENT COOPERATION TREA

To:

From th	ie IN7	ERNA	TIONA	AL BU	JREAU
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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

<u>.</u> .

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231

	ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 12 November 1999 (12.11.99)	in its capacity as elected Office
International application No. PCT/AU99/00175	Applicant's or agent's file reference 100585
International filing date (day/month/year) 19 March 1999 (19.03.99)	Priority date (day/month/year) 20 March 1998 (20.03.98)
Applicant TOWNSEND, James, Dunstone	

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
İ	19 October 1999 (19.10.99)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not /
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

F. Gateau

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

ENT	COOPERATION	TREA 🐊

From the INTERNATIONAL BUREAU PCT To: **NOTIFICATION OF THE RECORDING** McMASTER OBERIN ARTHUR ROBINSON & **OF A CHANGE HEDDERWICKS** Stock Exchange Centre (PCT Rule 92bis.1 and 530 Collins Street Administrative Instructions, Section 422) Melbourne, VIC 3000 **AUSTRALIE** Date of mailing (day/month/year) 12 November 1999 (12.11.99) Applicant's or agent's file reference **IMPORTANT NOTIFICATION** 100585 International filing date (day/month/year) International application No. 19 March 1999 (19.03.99) PCT/AU99/00175 1. The following indications appeared on record concerning: X the agent the common representative the inventor the applicant State of Residence State of Nationality Name and Address McMASTER & ASSOCIATES **Bourke Place** Telephone No. Level 15 61 3 9670 9900 600 Bourke Street Melbourne, VIC 3000 Facsimile No. Australia 61 3 9670 9800 Teleprinter No. 2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: the residence X the address the nationality X the name X the person State of Residence State of Nationality Name and Address McMASTER OBERIN ARTHUR ROBINSON & **HEDDERWICKS** Telephone No. Stock Exchange Centre 530 Collins Street 61 3 9613 8880 Melbourne, VIC 3000 Facsimile No. Australia 61 3 9613 8779 Teleprinter No. 3. Further observations, if necessary: 4. A copy of this notification has been sent to: the designated Offices concerned the receiving Office the elected Offices concerned the International Searching Authority other: the International Preliminary Examining Authority Authorized officer The International Bureau of WIPO 34, chemin des Colombettes F. Gateau 1211 Geneva 20, Switzerland

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REWIPO

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 100585	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).			
International application No. International filing		ate (day/month/year) Priority Date (day/month/year)			
PCT/AU 99/00175	19 March 1999		20 March 1998		
International Patent Classification (IPC)	or national classification	on and IPC			
Int. Cl. ⁶ A01G 25/16					
Applicant IRRIGATION CONTROL NETWORKS PTY LTD et al					
This international preliminary Authority and is transmitted to			International Preliminary Examining		
2. This REPORT consists of a to	tal of 4 sheets, include	ding this cover sheet.			
been amended and are the (see Rule 70.16 and Section 1).	he basis for this report a tion 607 of the Adminis	nd/or sheets containing	ription, claims and/or drawings which have grectifications made before this Authority ler the PCT).		
These annexes consist of a tot	al of sheet(s).				
3. This report contains indications relat	ing to the following iter	ns:			
I X Basis of the report	rt				
II Priority					
III Non-establishme	nt of opinion with regar	d to novelty, inventive	step and industrial applicability		
IV Lack of unity of i	nvention				
	ent under Article 35(2) value anations supporting such		inventive step or industrial applicability;		
VI Certain documen	ts cited				
VII Certain defects in	the international appli	cation			
VIII X Certain observati	ons on the international	application			
Date of submission of the demand		Date of completion of the	ne report		
19 October 1999	2	21 January 2000			
Name and mailing address of the IPEA/AU	^	Authorized Officer			
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929		A SEN Telephone No. (02) 628	32158		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	
Σ Γ/AU 99/00175	

L	Basis of the report
1.	With regard to the elements of the international application:*
	X the international application as originally filed.
	the description, pages, as originally filed,
	pages, filed with the demand,
	pages , filed with the letter of .
	the claims, pages, as originally filed,
	pages , as amended (together with any statement) under Article 19,
	pages , filed with the demand,
	pages , filed with the letter of .
	the drawings, pages, as originally filed,
	pages , filed with the demand,
	pages , filed with the letter of .
	the sequence listing part of the description:
	pages , as originally filed
	pages , filed with the demand
	pages , filed with the letter of .
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, was on the basis of the sequence listing:
	contained in the international application in written form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
4.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/fig.
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).
**	report as "originally filed" and are not annexed to this report since they do not contain amendments (Rutes 70.16 and 70.17). Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims 1-15	YES	
		Claims	NO	
	Inventive step (IS)	Claims 1-15	YES	
		Claims	NO	
	Industrial applicability (IA)	Claims 1-15	YES	
		Claims	NO	

2. Citations and explanations (Rule 70.7)

Claims 1 to 15 meet the criteria set forth in PCT Article 33(2)-(4) for novelty, inventive step and industrial applicability. The prior art published before the priority date does not disclose, teach or suggest an irrigation control system comprising a meter for measuring weather conditions in a first area, a monitor for extracting rainfall data for a sub-area of the first area from a radar scanning the first area, a store for storing the extracted data and a controller connected to the meter, monitor and store for calculating a moisture value and a calculated moisture value for the sub-area and for regulating the irrigation in the sub-area.

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- 1. Claims 1, 3 to 12, 14 and 15 do not define the invention described because they omit the following feature which, from reading the specification as a whole, appears to be essential to the invention:
 - (a) the controller regulates the irrigation in the sub-area by either initiating or preventing irrigation of the sub-area depending upon whether the moisture content value is less than or more than the predetermined moisture content value for the sub-area

This feature is defined in Claims 2 and 13. It appears from your description as a whole that the whole point of the invention is to control irrigation by measuring moisture content at least. The monitor studies the radar output, the controller calculates moisture content, simply to arrive at rainfall/moisture content values so that irrigation can be regulated with at least this "moisture" feature in mind. However as Claim 1 for example is defined at present, the regulation need not even consider moisture content; true, the monitor and controller calculate moisture content values but there is nothing defined in the claim to say that the controller uses these values for regulating irrigation.



International application No.
PCT/AU 99/00175

A.	CLASSIFICATION OF SUBJECT MATTER				
Int Cl ⁶ :	A01G 25/16				
According to	International Patent Classification (IPC) or to bot	h national classification and IPC			
В.	FIELDS SEARCHED				
Minimum docu IPC: A01G 2	umentation searched (classification system followed by 25/16, 25/00	classification symbols)			
Documentation AU: IPC as a	searched other than minimum documentation to the exabove	tent that such documents are included in	the fields searched		
Electronic data DERWENT	base consulted during the international search (name o	of data base and, where practicable, search	ı terms used)		
C.	DOCUMENTS CONSIDERED TO BE RELEVAN	г			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
A	AU 15836/97 A (IRRIGATION CONTROL NE 1997 Entire document	1-15			
	Further documents are listed in the continuation of Box C	See patent family an	nnex		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document defining the general state of the art which is not considered to be of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family					
	ual completion of the international search	Date of mailing of the international sear	rch report		
30 March 199	9 ling address of the ISA/AU	1 3 APR 1999 Authorized officer			
AUSTRALIAN PATENT OFFICE PO BOX 200 WODEN ACT 2606 AUSTRALIA Facsimile No.: (02) 6285 3929 A. SEN Telephone No.: (02) 6283 2158					

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/AU 99/00175

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

itent Doc	nument Cited in Search Report			Patent Family Member
AU	15836/97	wo	97/27733	
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				END OF AN

From the: .

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

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McMaster Oberins Arthur Robinson & Hedderwicks GPO BOX 1776Q MELBOURNE VIC 3001

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NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing day/month/year

3 1 JAN 2000

Applicant's or agent's file reference

International application No.

PCT/AU 99/00175

100585

IMPORTANT NOTIFICATION

International filing date 19 March 1999

Priority date 20 March 1998

Applicant

IRRIGATION CONTROL NETWORKS PTY LTD et al

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translations to those Offices.
- 4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide

Name and mailing address of the IPEA/AU

AUSTRALIAN PATENT OFFICE

PO BOX 200, WODEN ACT 2606, AUSTRALIA

E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 Authorized officer

A SEN

Telephone No. (02) 62832158

LVT 1 723 2200

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 100585	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).			
International application No.	International filing dat	te (day/month/year)	Priority Date (day/month/year)		
PCT/AU 99/00175	19 March 1999		20 March 1998		
International Patent Classification (IPC	or national classification	on and IPC			
Int. Cl. ⁶ A01G 25/16			•		
Applicant IRRIGATION CONTROL NETWORKS PTY LTD et al					
		· · · · · · · · · · · · · · · · · · ·			
This international preliminary Authority and is transmitted to			International Preliminary Examining		
2. This REPORT consists of a to	tal of 4 sheets, includ	ling this cover sheet.	·		
	ne basis for this report as	nd/or sheets containing	iption, claims and/or drawings which have grectifications made before this Authority ler the PCT).		
These annexes consist of a total	al of sheet(s).				
3. This report contains indications relate	ing to the following item	ns:			
I X Basis of the repor	t				
II Priority			·		
III Non-establishmer	nt of opinion with regard	to novelty, inventive s	step and industrial applicability		
IV Lack of unity of in	nvention				
	nt under Article 35(2) wantions supporting suc		inventive step or industrial applicability;		
VI Certain document	s cited		·		
VII Certain defects in	s in the international application				
VIII X Certain observation	ons on the international	application			
Date of submission of the demand		ate of completion of th	a const		
19 October 1999	2.	Date of completion of the report 21 January 2000			
Name and mailing address of the PEA/AU	A	uthorized Officer			
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929		A SEN Telephone No. (02) 62832158			

	<u> </u>
4	national application No.
	PCT/AU 99/00175

1.	
1.	With regard to the elements of the international application:*
	X the international application as originally filed.
	the description, pages, as originally filed,
	pages , filed with the demand,
Ì	pages, filed with the letter of
	the claims, pages, as originally filed,
]	pages , as amended (together with any statement) under Article 19,
	pages , filed with the demand,
	pages, filed with the letter of.
	the drawings, pages, as originally filed,
	pages , filed with the demand,
	pages, filed with the letter of
	the sequence listing part of the description:
laanna	pages , as originally filed
	pages , filed with the demand
	pages, filed with the letter of
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international application with the language of a translation furnished for the purposes of international application.
	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
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•	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement				
	Novelty (N)	Claims 1-15	YES		
		Claims	NO		
	Inventive step (IS)	Claims 1-15	YES		
		Claims	NO		
	Industrial applicability (IA)	Claims 1-15	YES		
		Claims	NO		

2. Citations and explanations (Rule 70.7)

Claims 1 to 15 meet the criteria set forth in PCT Article 33(2)-(4) for novelty, inventive step and industrial applicability. The prior art published before the priority date does not disclose, teach or suggest an irrigation control system comprising meter for measuring weather conditions in a first area, a monitor for extracting rainfall data for a sub-area of the first area from a radar scanning the first area, a store for storing the extracted data and a controller connected to the meter, monitor and store for calculating a moisture value and a calculated moisture value for the sub-area and for regulating the irrigation in the sub-area.

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- 1. Claims 1, 3 to 12, 14 and 15 do not define the invention described because they omit the following feature which, from reading the specification as a whole, appears to be essential to the invention:
 - (a) the controller regulates the irrigation in the sub-area by either initiating or preventing irrigation of the sub-area depending upon whether the moisture content value is less than or more than the predetermined moisture content value for the sub-area

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